

FIG. 1

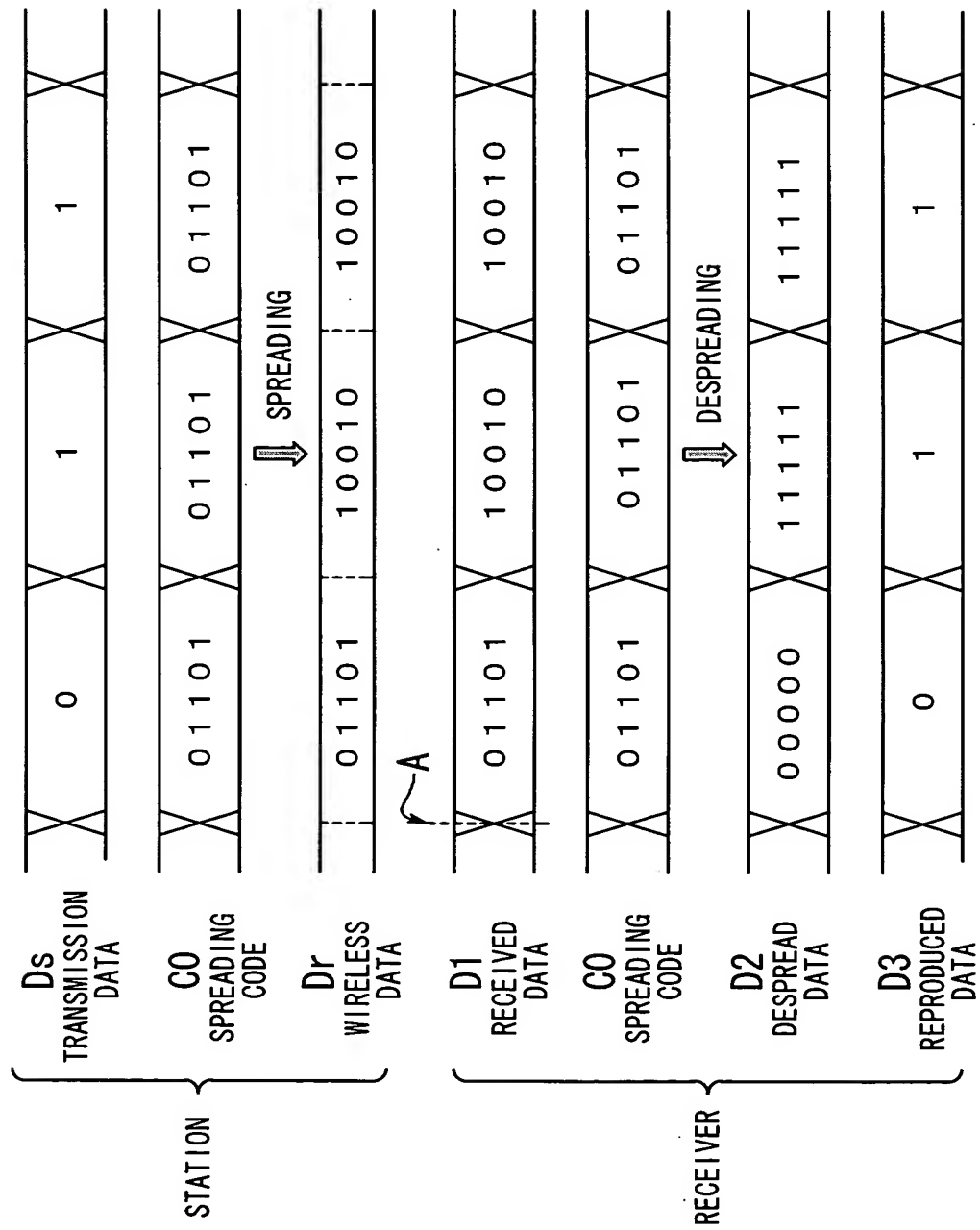


FIG. 2

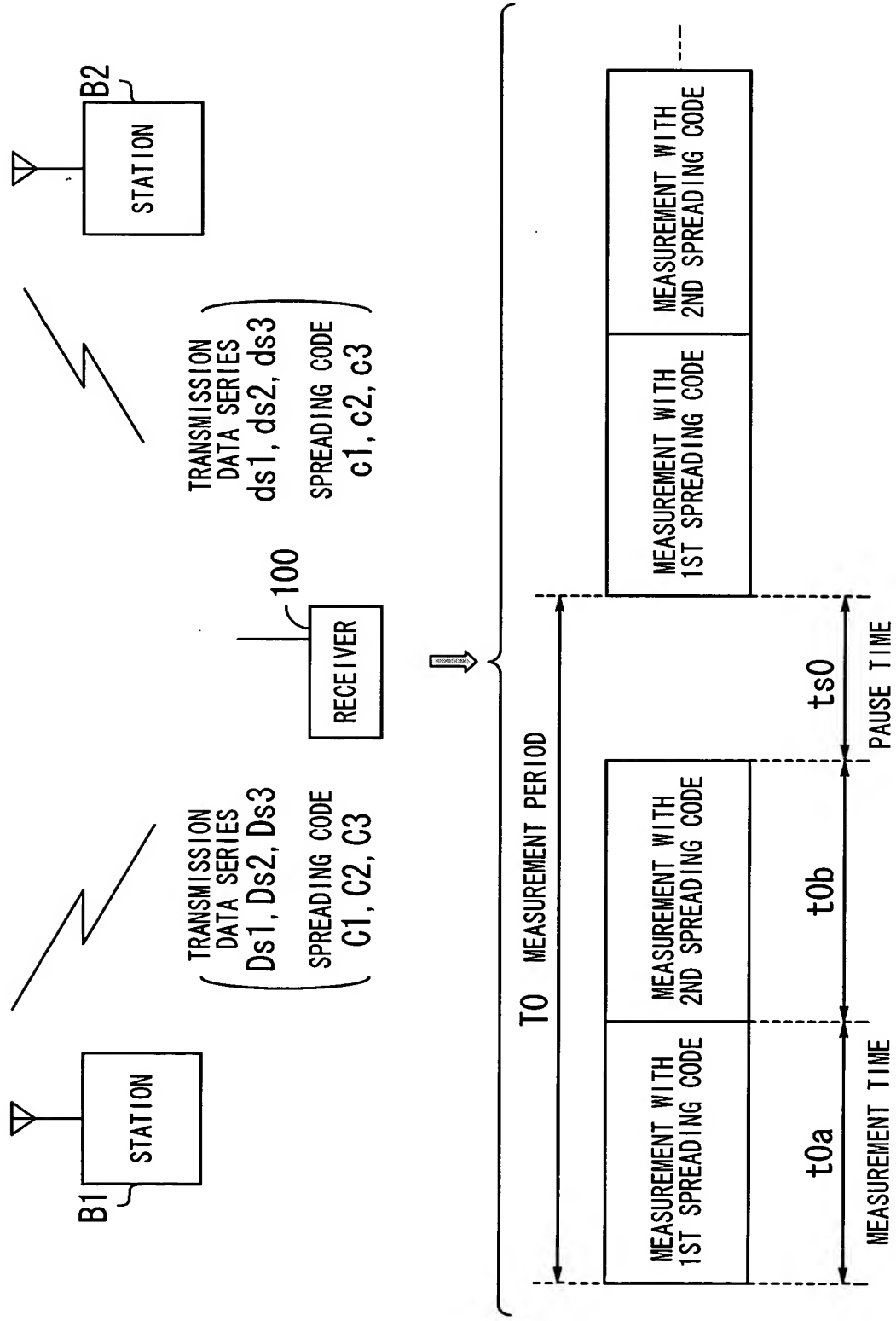


FIG. 3

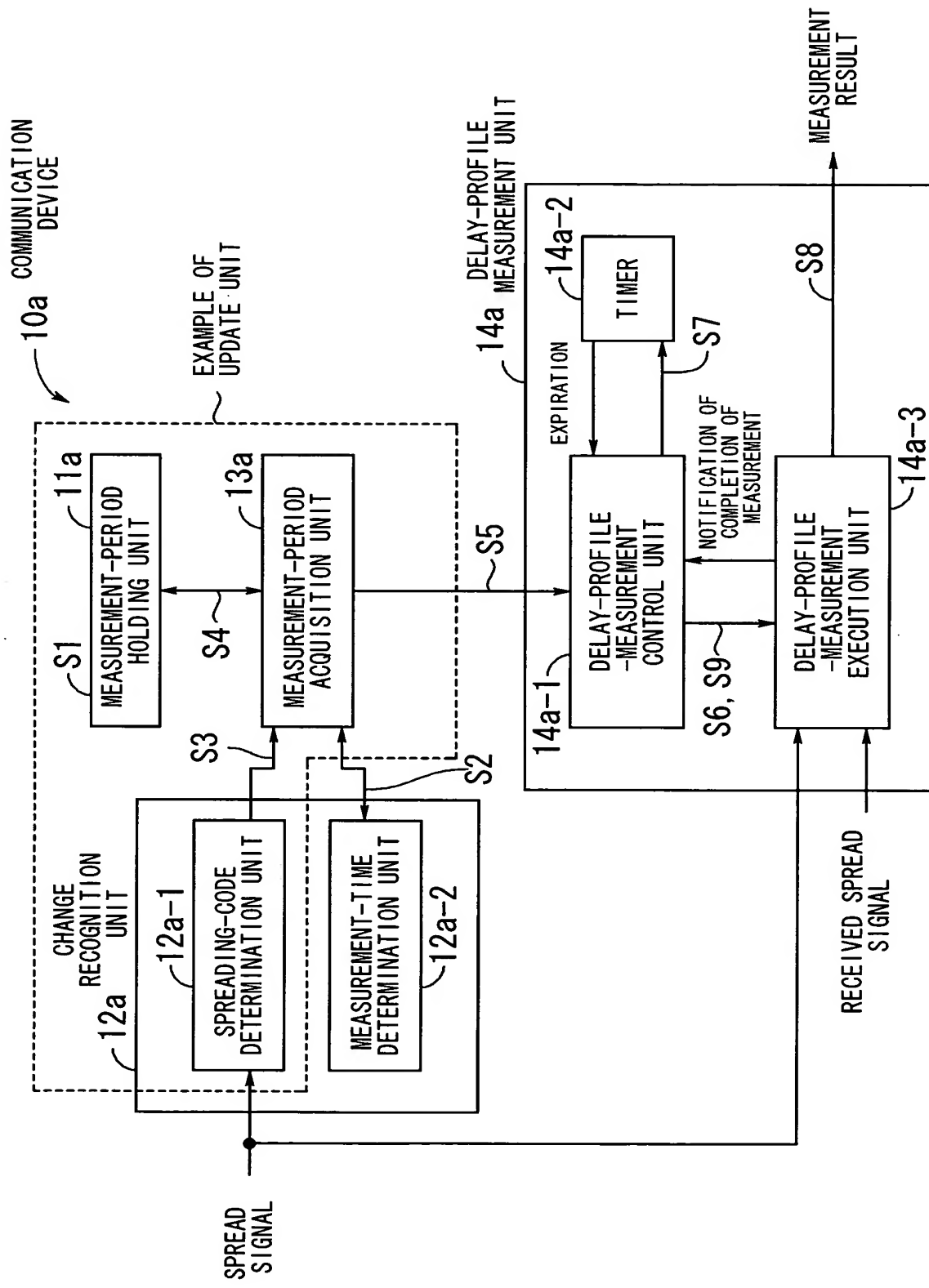


FIG. 4

11a-1

NUMBER OF SPREADING CODE	1-10	11-20	21-48
MEASUREMENT PERIOD	50ms	100ms	200ms

FIG. 5

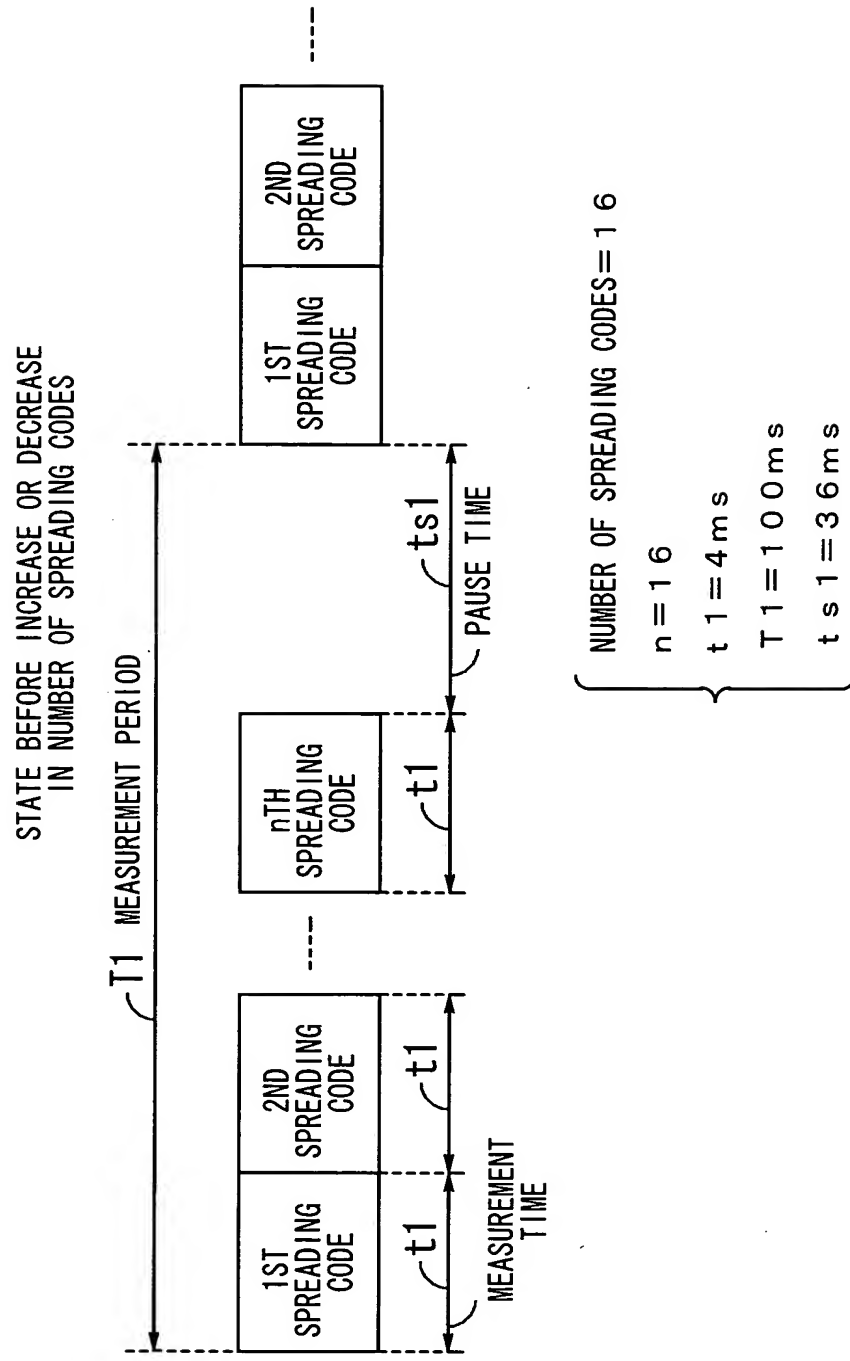
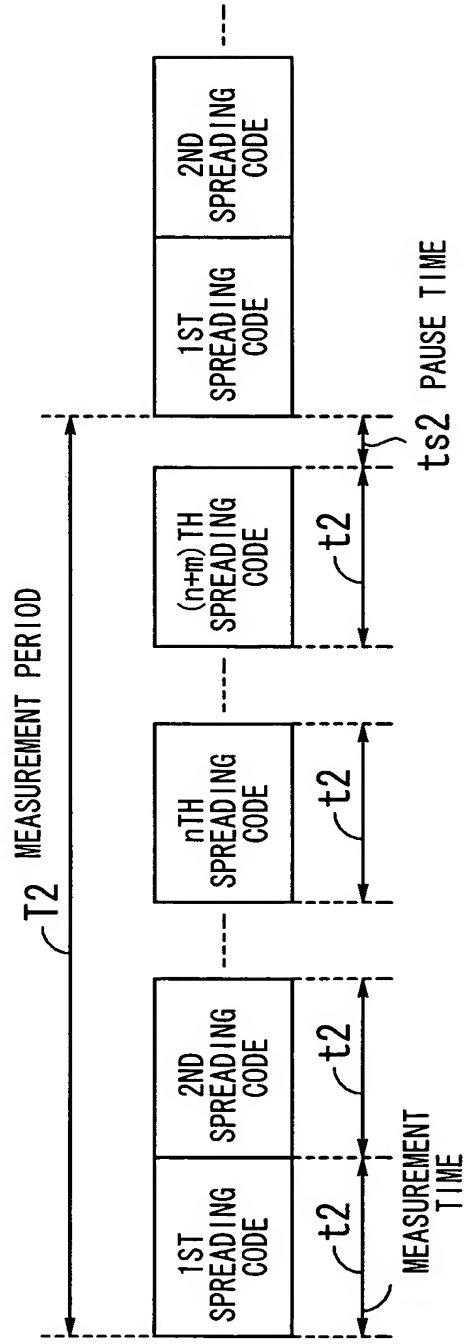


FIG. 6

STATE IN WHICH NUMBER OF SPREADING CODES IS INCREASED,
AND MEASUREMENT PERIOD IS NOT CHANGED

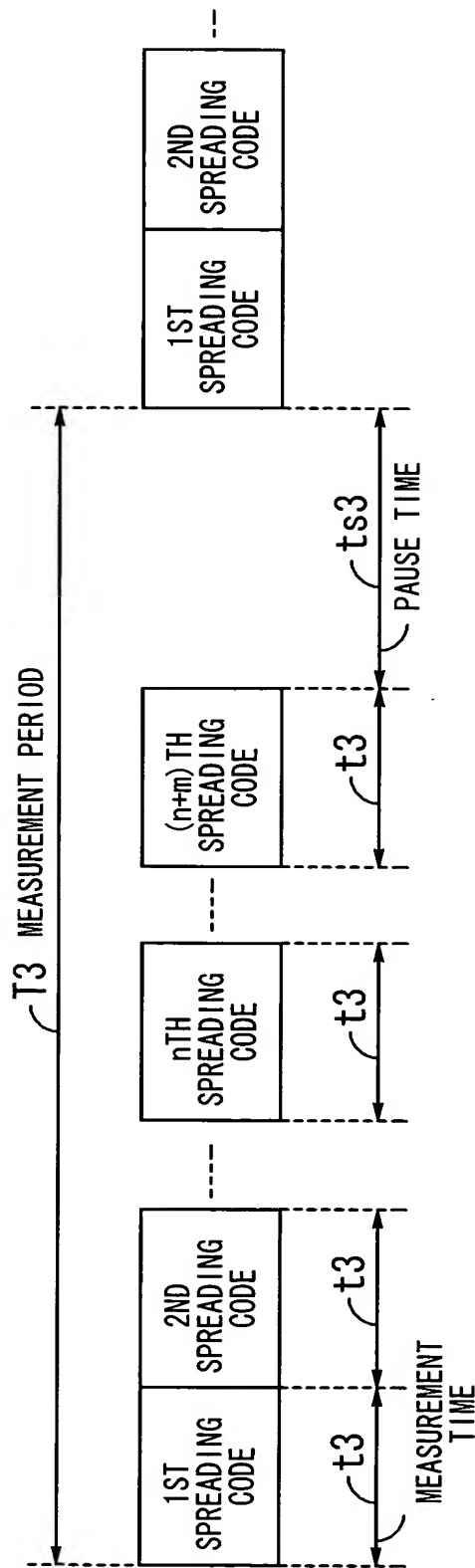


NUMBER OF SPREADING CODES = 20

$n = 16$
 $m = 4$
 $t_2 = 4 \text{ ms}$
 $T_2 = 100 \text{ ms}$
 $t_{s2} = 20 \text{ ms}$

FIG. 7

STATE IN WHICH NUMBER OF SPREADING CODES IS INCREASED,
AND MEASUREMENT PERIOD IS CHANGED



NUMBER OF SPREADING CODES = 30

$n = 16$

$m = 14$

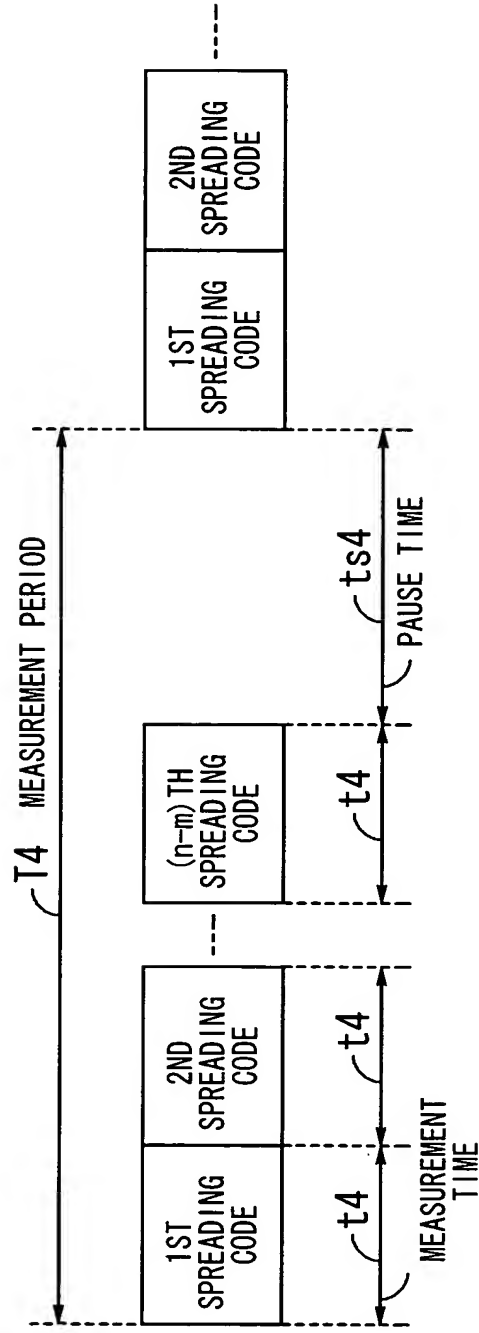
$t_3 = 4 \text{ ms}$

$T_3 = 200 \text{ ms}$

$t_{s3} = 80 \text{ ms}$

FIG. 8

STATE IN WHICH NUMBER OF SPREADING CODES IS DECREASED,
AND MEASUREMENT PERIOD IS NOT CHANGED



NUMBER OF SPREADING CODES = 1 2

$n = 16$
 $m = 4$
 $t_4 = 4 \text{ ms}$
 $T_4 = 100 \text{ ms}$
 $t_{s4} = 52 \text{ ms}$

FIG. 9

STATE IN WHICH NUMBER OF SPREADING CODES IS DECREASED,
AND MEASUREMENT PERIOD IS CHANGED

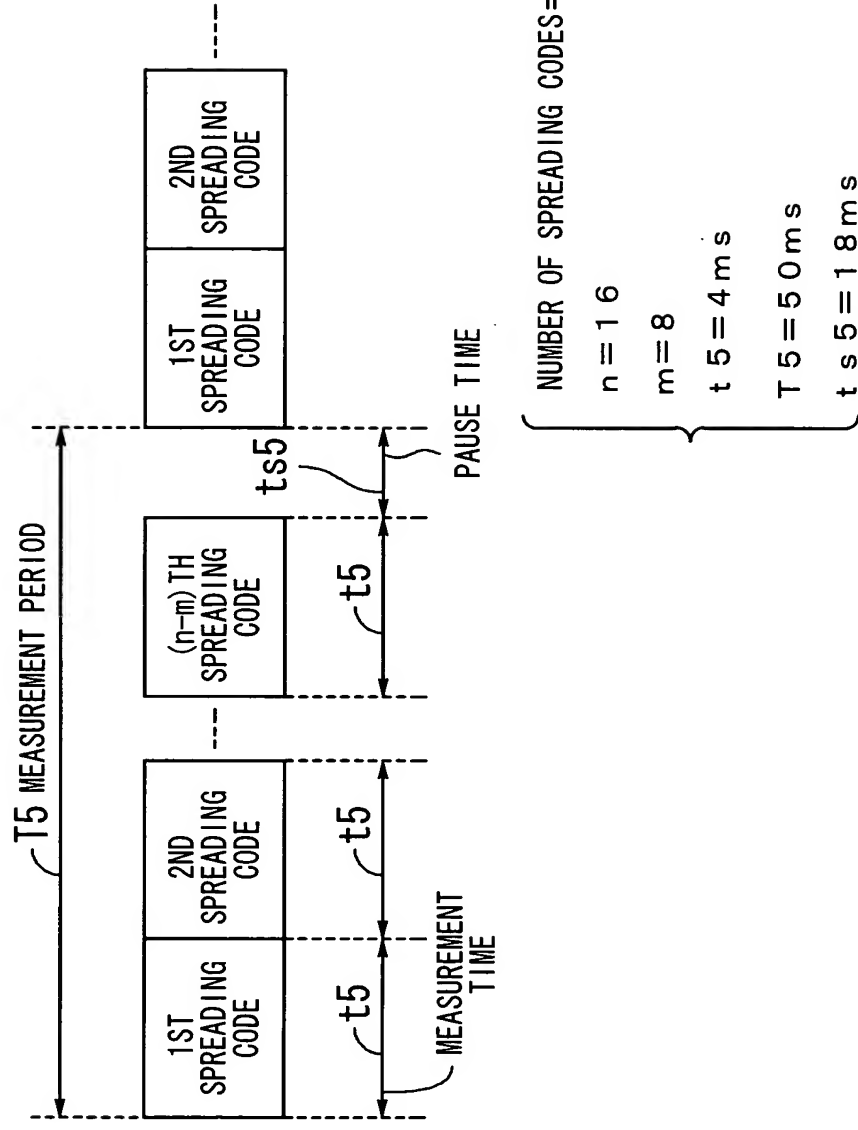


FIG. 10

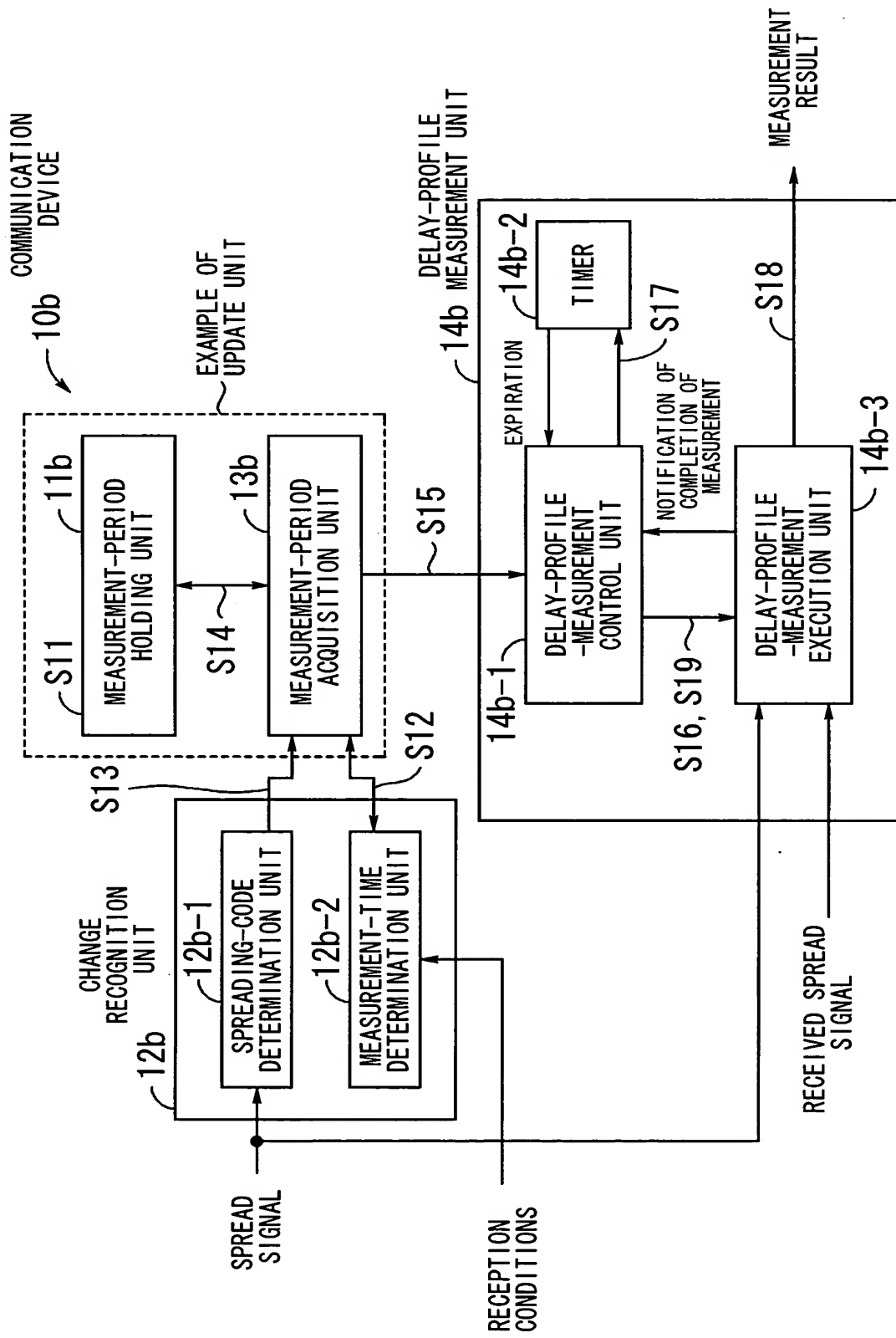


FIG. 11

↖ 11b-1

MEASUREMENT TIME	~ 1 m s	~ 2 m s	~ 4 m s
MEASUREMENT PERIOD	5 0 m s	1 0 0 m s	2 0 0 m s

FIG. 12

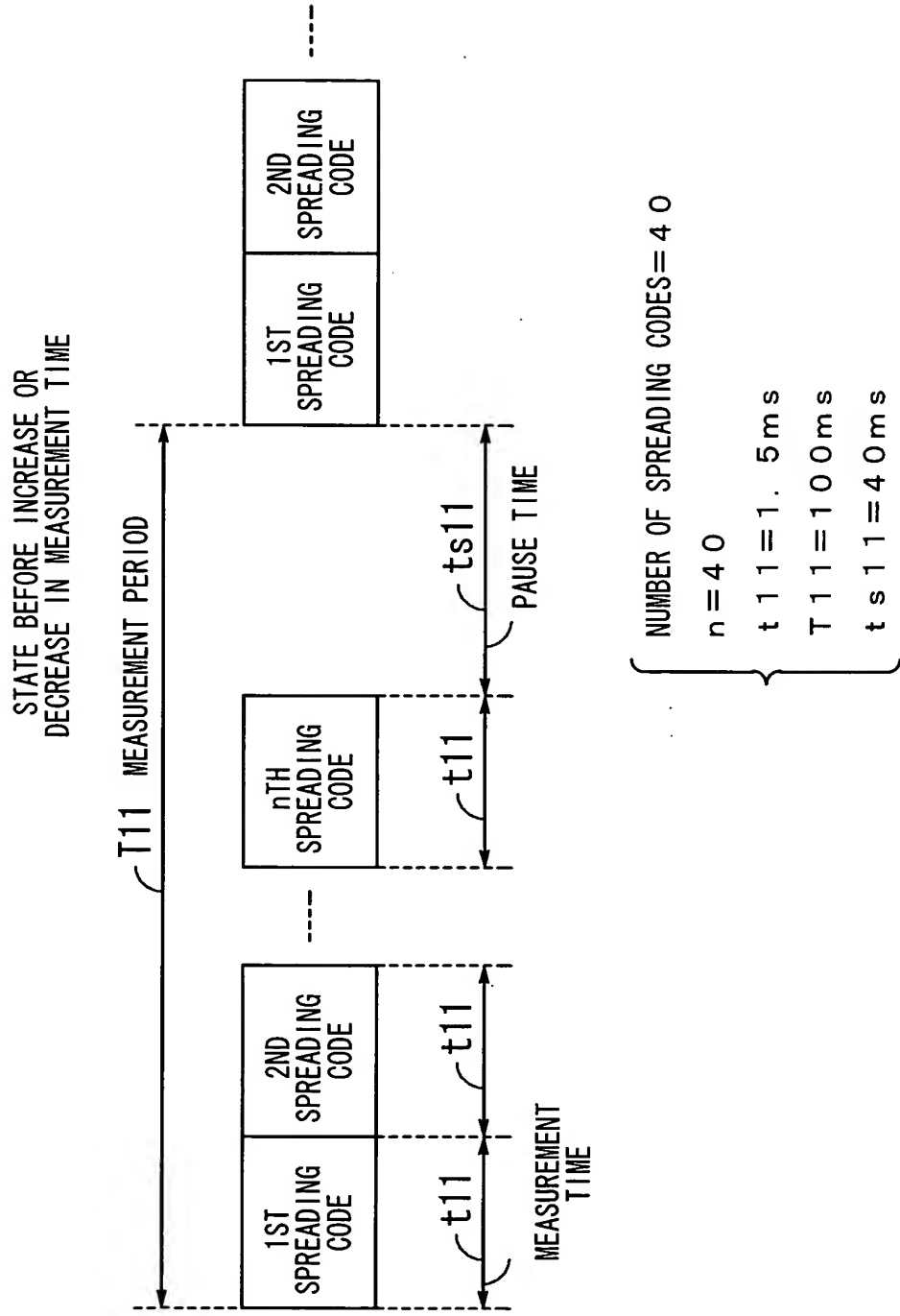
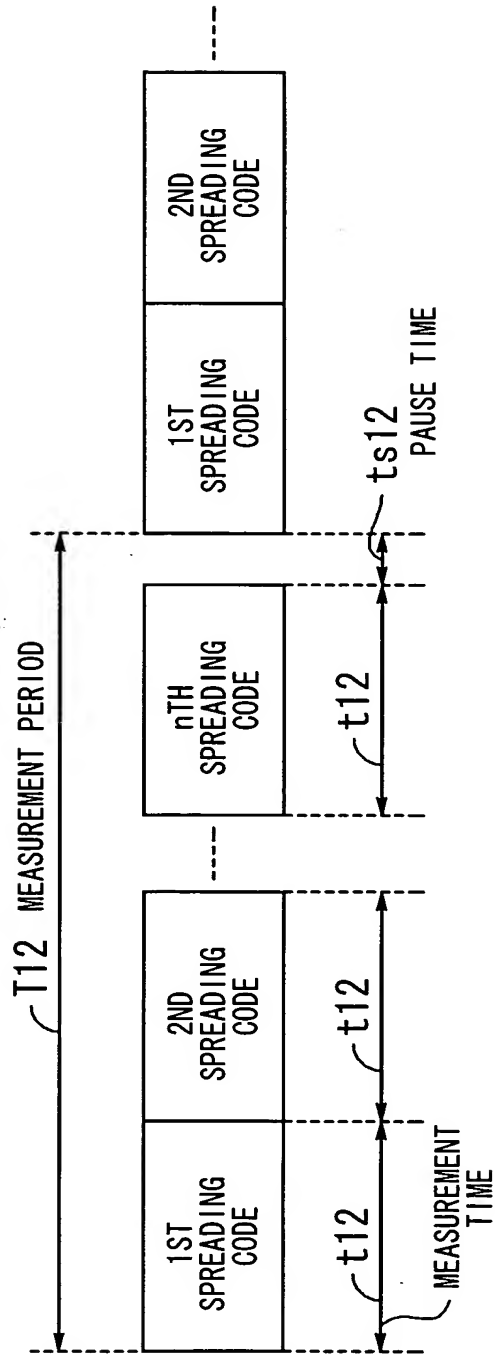


FIG. 13

STATE IN WHICH MEASUREMENT TIME IS INCREASED,
AND MEASUREMENT PERIOD IS NOT CHANGED



NUMBER OF SPREADING CODES = 40

$n = 40$

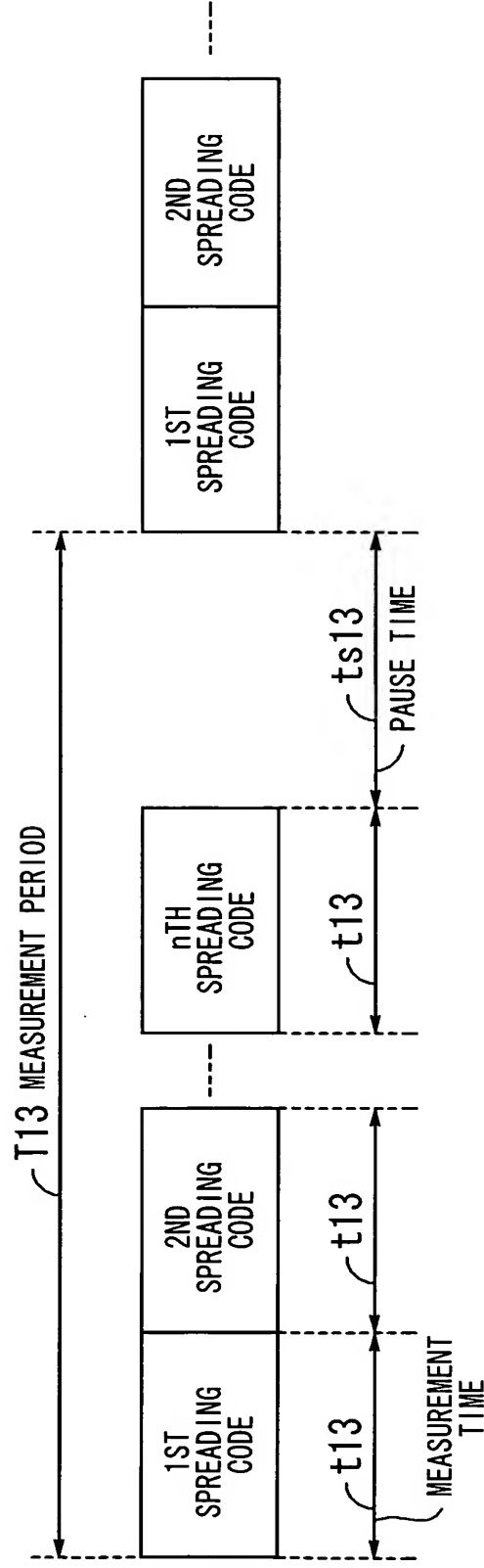
$t_{12} = 2\text{ms}$

$T_{12} = 100\text{ms}$

$t_{s12} = 20\text{ms}$

FIG. 14

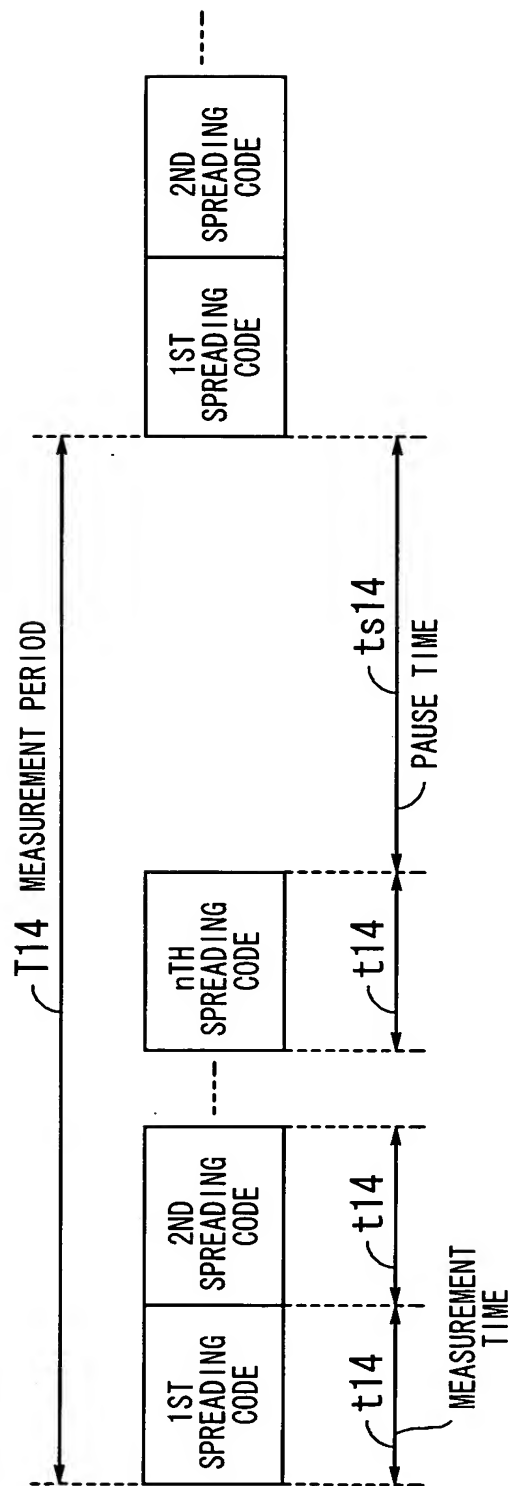
STATE IN WHICH MEASUREMENT TIME IS INCREASED,
AND MEASUREMENT PERIOD IS CHANGED



NUMBER OF SPREADING CODES = 4 0
 $n = 4 0$
 $t_{13} = 3 \text{ m s}$
 $T_{13} = 200 \text{ m s}$
 $t_{s13} = 80 \text{ m s}$

FIG. 15

STATE IN WHICH MEASUREMENT TIME IS DECREASED,
AND MEASUREMENT PERIOD IS NOT CHANGED



NUMBER OF SPREADING CODES = 40

$n = 40$

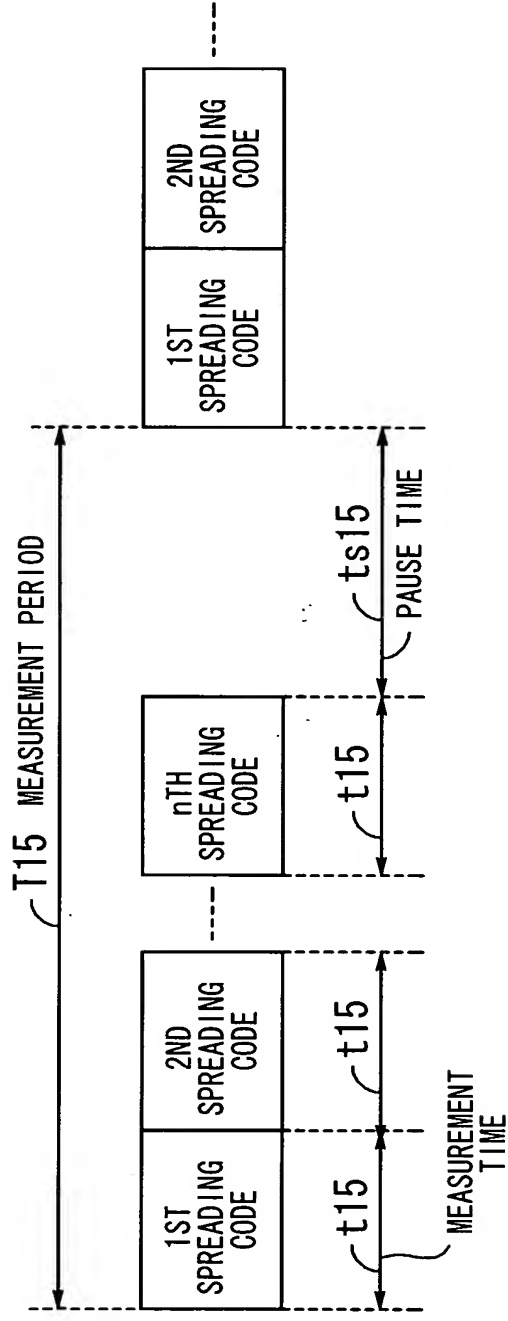
$t_{14} = 1.2 \text{ ms}$

$T_{14} = 100 \text{ ms}$

$t_{s14} = 52 \text{ ms}$

FIG. 16

STATE IN WHICH MEASUREMENT TIME IS DECREASED,
AND MEASUREMENT PERIOD IS CHANGED



NUMBER OF SPREADING CODES = 4 0

$n = 4 0$
 $t_{15} = 0.5 \text{ ms}$
 $T_{15} = 50 \text{ ms}$
 $t_{s15} = 30 \text{ ms}$

FIG. 17

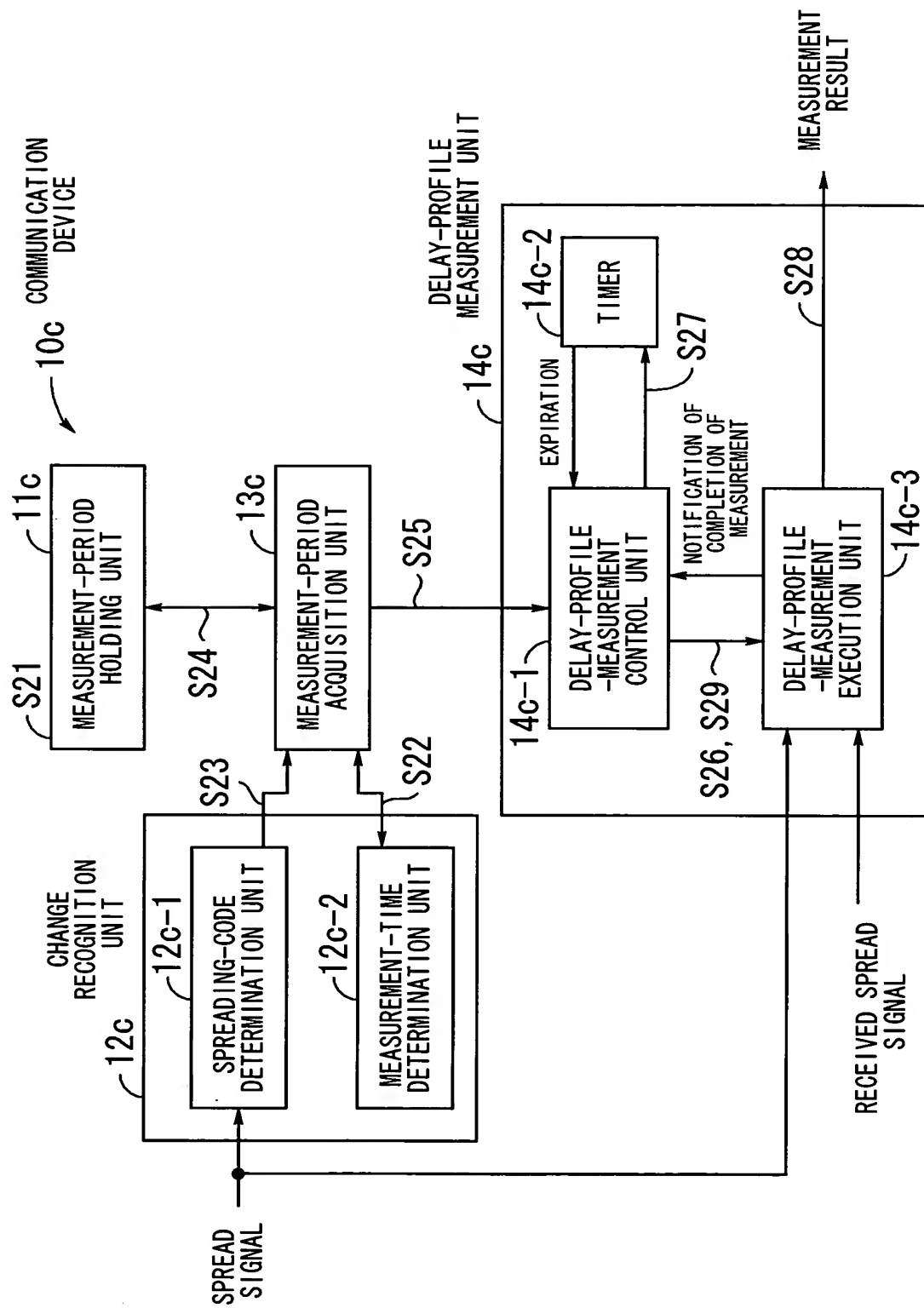


FIG. 18

↖ 11c-1

MEASUREMENT TIME \ NUMBER OF SPREADING CODE	1-16	17-32	33-48
~ 1 m s	5 0 m s	5 0 m s	5 0 m s
~ 2 m s	5 0 m s	1 0 0 m s	1 0 0 m s
~ 4 m s	1 0 0 m s	2 0 0 m s	2 0 0 m s

MEASUREMENT PERIOD

FIG. 19

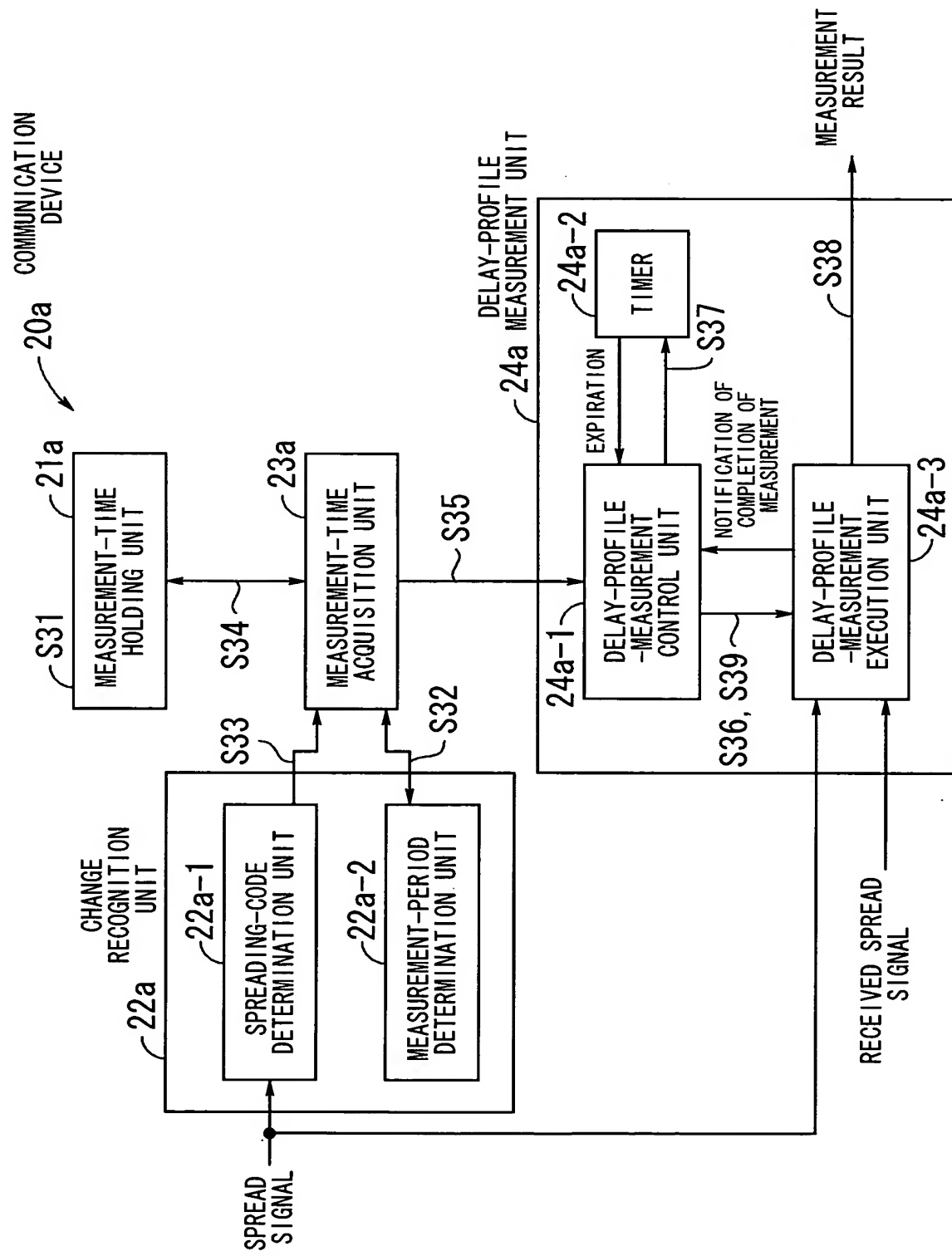


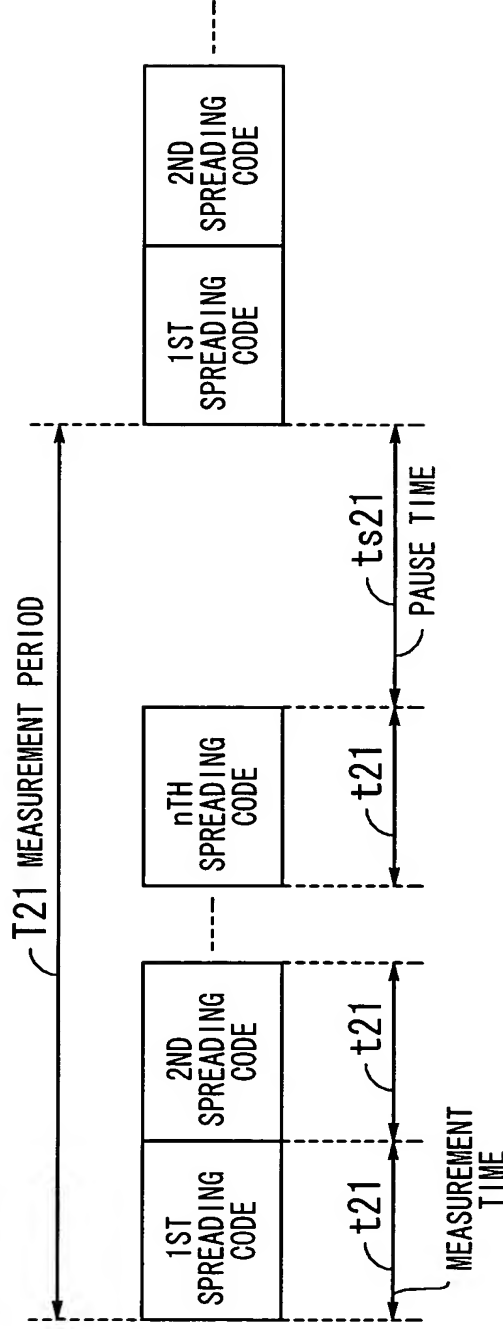
FIG. 20

21a-1

NUMBER OF SPREADING CODE	1-10	11-20	21-48
MEASUREMENT TIME	4ms	2ms	1ms

FIG. 21

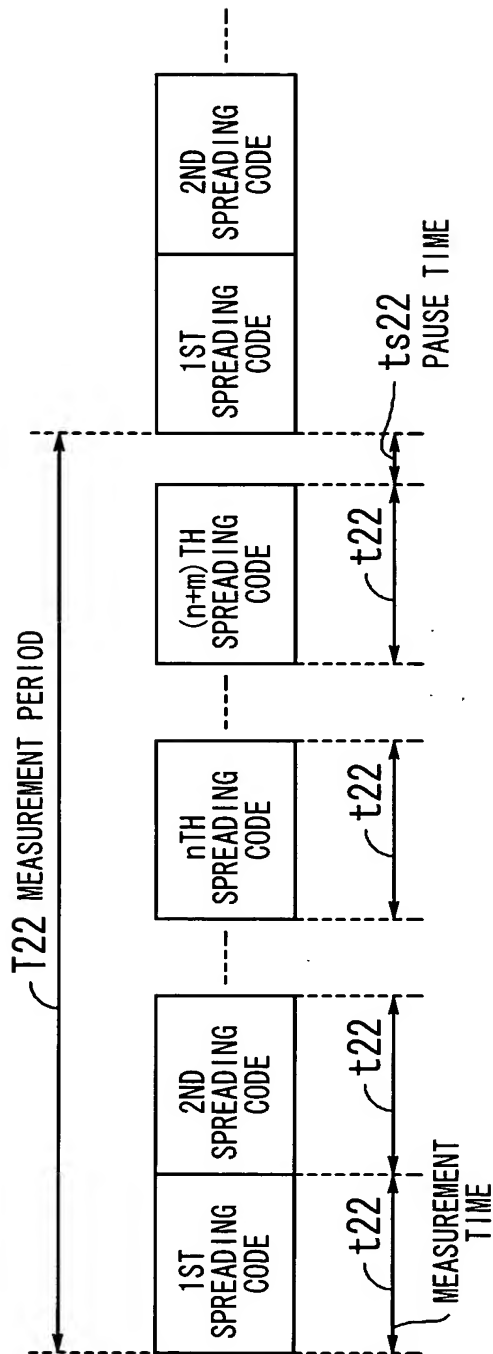
STATE BEFORE INCREASE OR DECREASE
IN NUMBER OF SPREADING CODES



NUMBER OF SPREADING CODES = 16
 $n = 16$
 $t_{21} = 2 \text{ ms}$
 $T_{21} = 50 \text{ ms}$
 $t_{s21} = 18 \text{ ms}$

FIG. 22

STATE IN WHICH NUMBER OF SPREADING CODES IS INCREASED,
AND MEASUREMENT TIME IS NOT CHANGED



NUMBER OF SPREADING CODES = 20

$n = 16$

$m = 4$

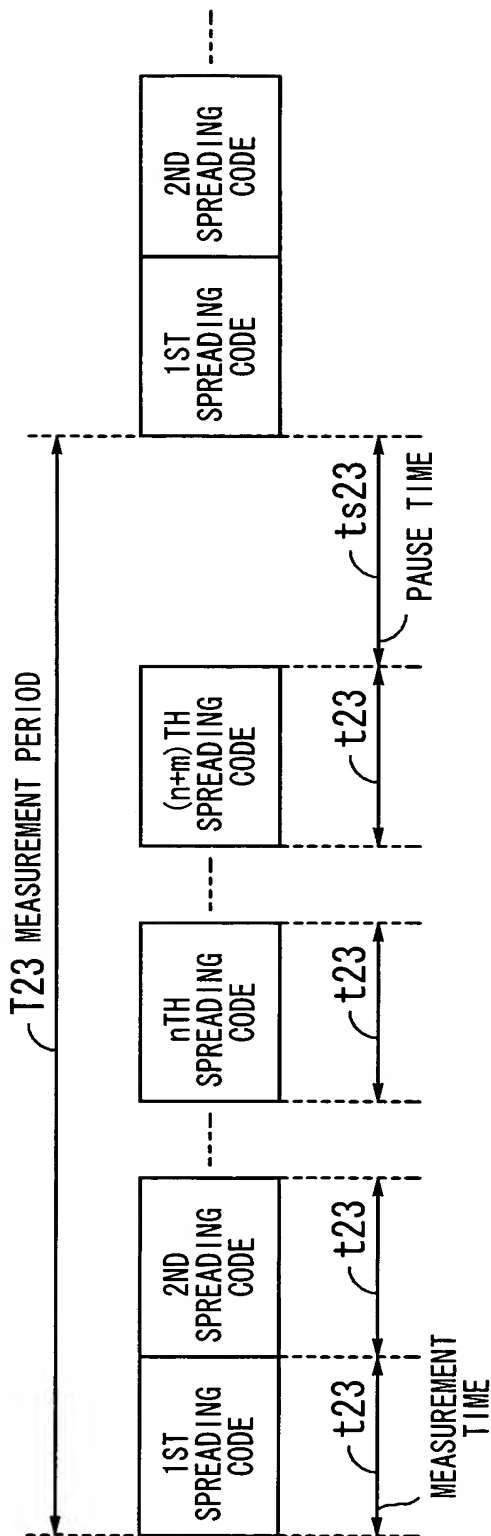
$t_{22} = 2 \text{ ms}$

$T_{22} = 50 \text{ ms}$

$t_{s22} = 10 \text{ ms}$

FIG. 23

STATE IN WHICH NUMBER OF SPREADING CODES IS INCREASED,
AND MEASUREMENT TIME IS CHANGED



NUMBER OF SPREADING CODES = 30

$n = 16$

$m = 14$

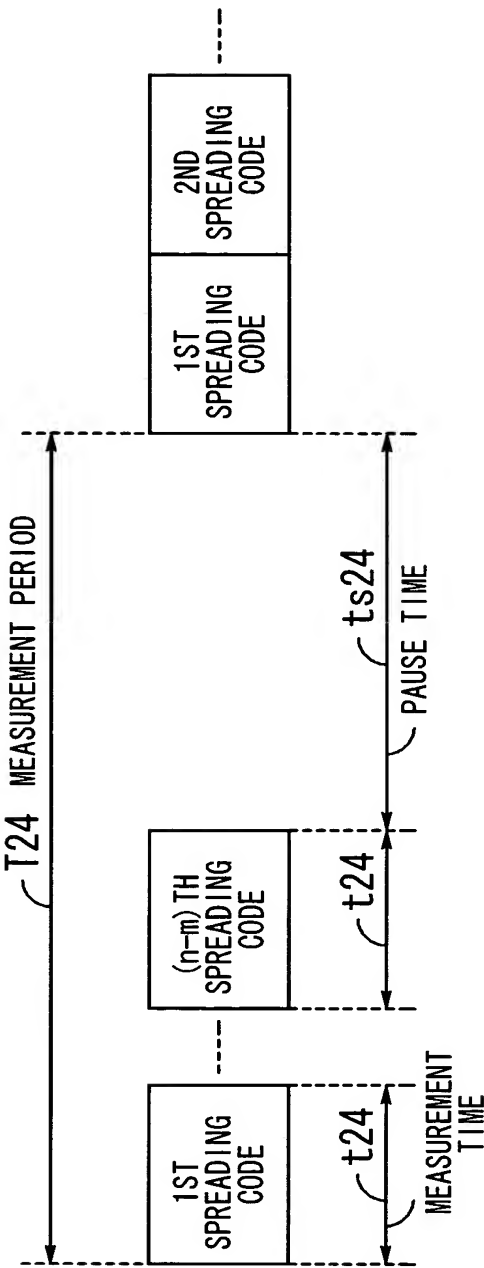
$t_{23} = 1 \text{ ms}$

$T_{23} = 50 \text{ ms}$

$t_{s23} = 20 \text{ ms}$

FIG. 24

STATE IN WHICH NUMBER OF SPREADING CODES IS DECREASED,
AND MEASUREMENT TIME IS NOT CHANGED



NUMBER OF SPREADING CODES = 12

$n = 16$

$m = 4$

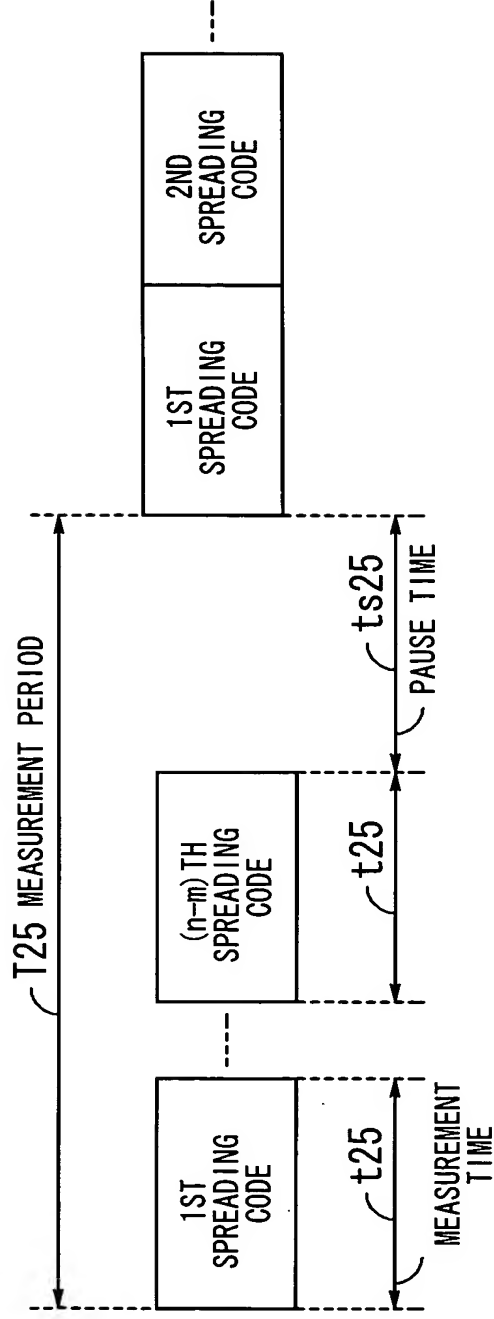
$t_{24} = 2 \text{ ms}$

$T_{24} = 50 \text{ ms}$

$t_{s24} = 26 \text{ ms}$

FIG. 25

STATE IN WHICH NUMBER OF SPREADING CODES IS DECREASED,
AND MEASUREMENT TIME IS CHANGED



NUMBER OF SPREADING CODES = 8

$$n = 16$$

$$m = 8$$

$$t_{25} = 4 \text{ ms}$$

$$T_{25} = 50 \text{ ms}$$

$$ts_{25} = 18 \text{ ms}$$

FIG. 26

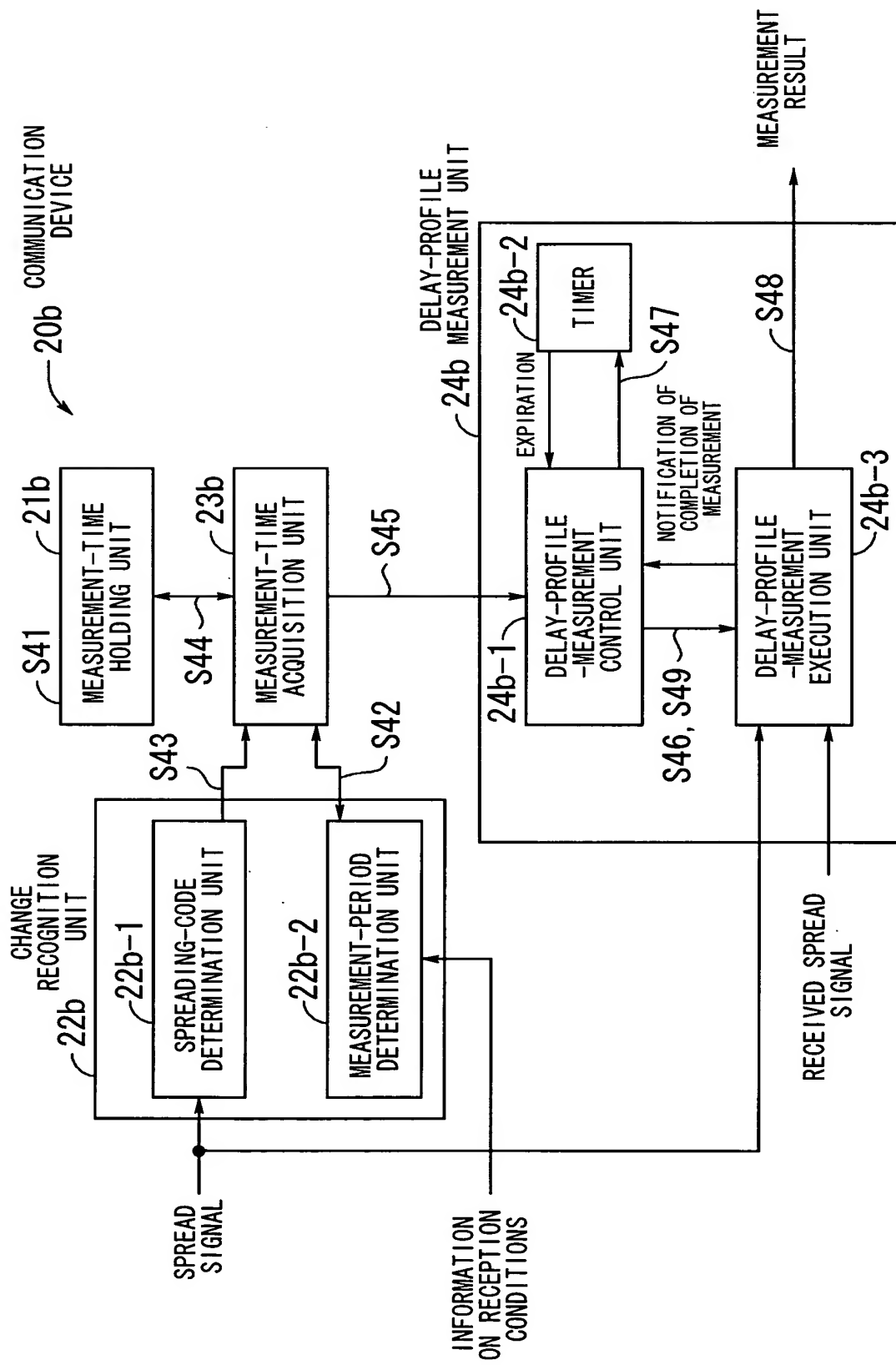


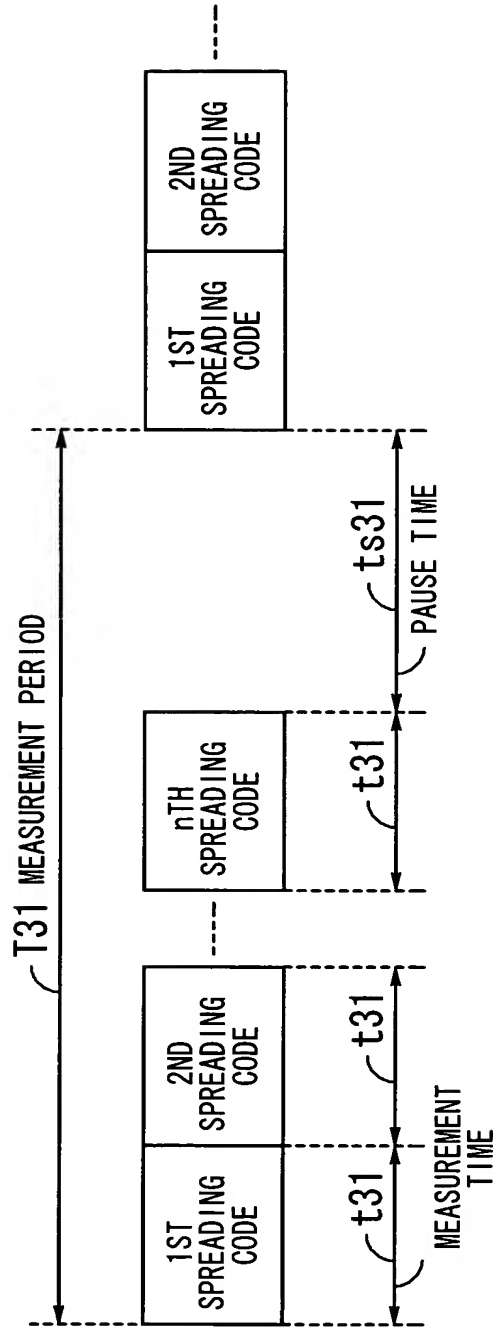
FIG. 27

21b-1

MEASUREMENT PERIOD	5 0 m s ~	1 0 0 m s ~	2 0 0 ~ 4 0 0 m s
MEASUREMENT TIME	1 m s	2 m s	4 m s

FIG. 28

STATE BEFORE INCREASE OR DECREASE
IN MEASUREMENT PERIOD



NUMBER OF SPREADING CODES = 40

$n = 40$

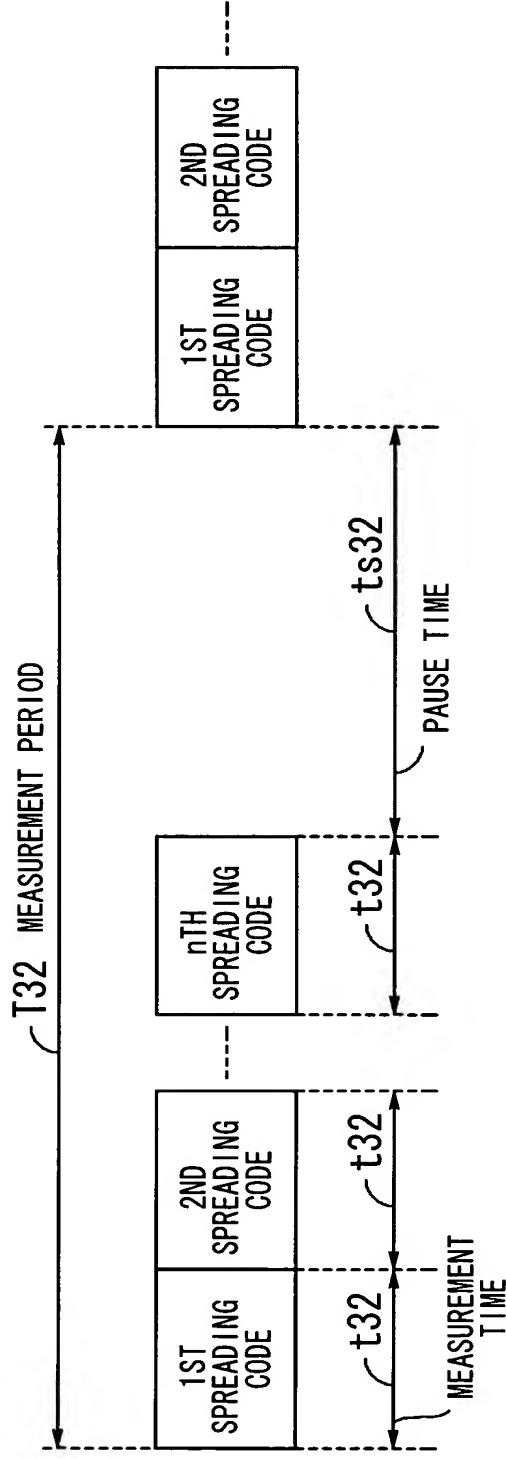
$t_{31} = 2 \text{ ms}$

$T_{31} = 150 \text{ ms}$

$t_{s31} = 70 \text{ ms}$

FIG. 29

STATE IN WHICH MEASUREMENT PERIOD IS INCREASED,
AND MEASUREMENT TIME IS NOT CHANGED



NUMBER OF SPREADING CODES = 4 0

$n = 4 0$

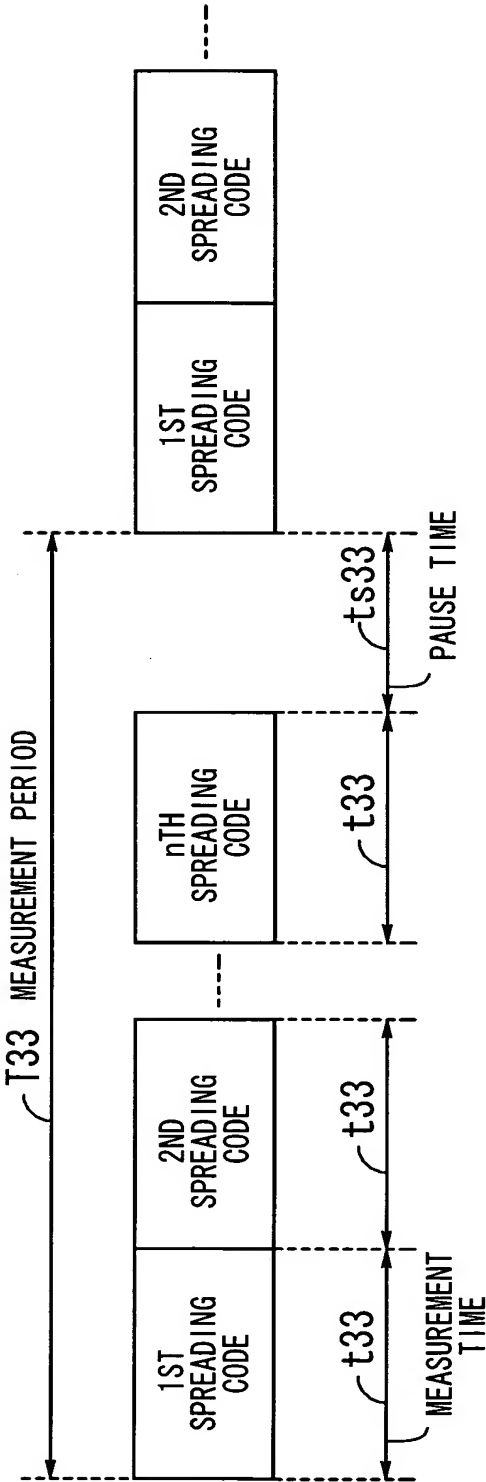
$t_{32} = 2 \text{ ms}$

$T_{32} = 190 \text{ ms}$

$t_{s32} = 110 \text{ ms}$

FIG. 30

STATE IN WHICH MEASUREMENT PERIOD IS INCREASED,
AND MEASUREMENT TIME IS CHANGED



NUMBER OF SPREADING CODES = 4 0

$n = 4 0$

$t 3 3 = 4 \text{ m s}$

$T 3 3 = 3 0 0 \text{ m s}$

$t s 3 3 = 1 4 0 \text{ m s}$

FIG. 31

STATE IN WHICH MEASUREMENT PERIOD IS DECREASED,
AND MEASUREMENT TIME IS NOT CHANGED

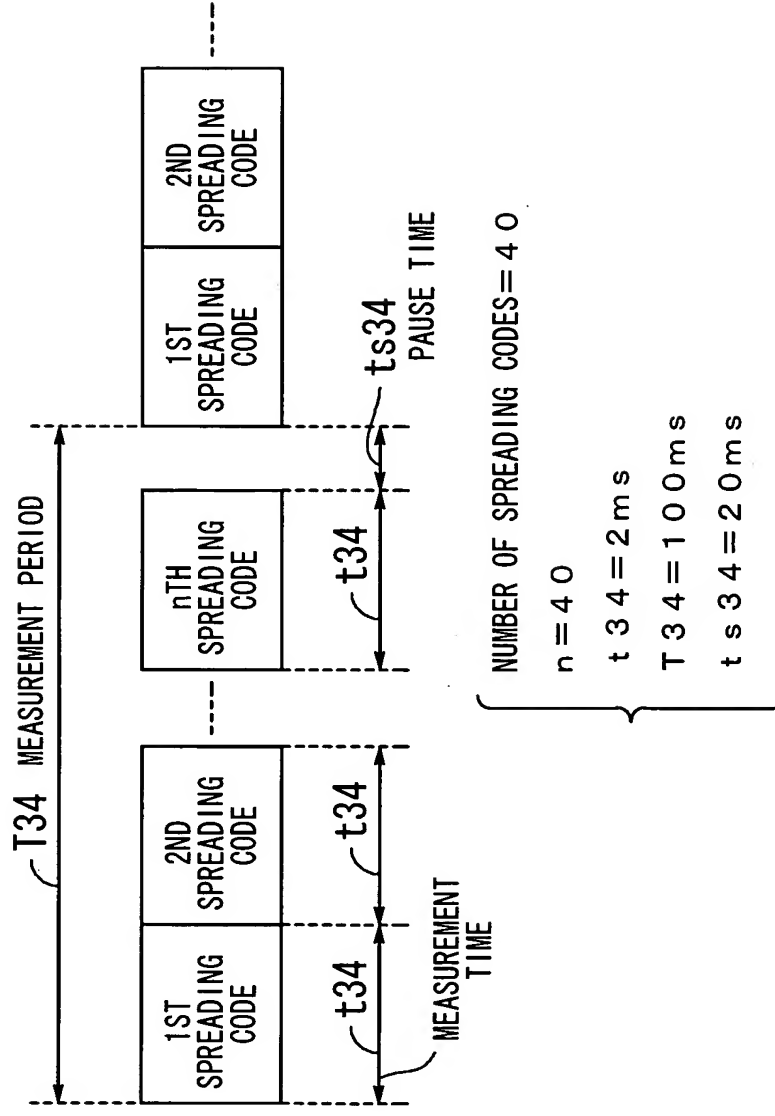


FIG. 32

STATE IN WHICH MEASUREMENT PERIOD IS DECREASED,
AND MEASUREMENT TIME IS CHANGED

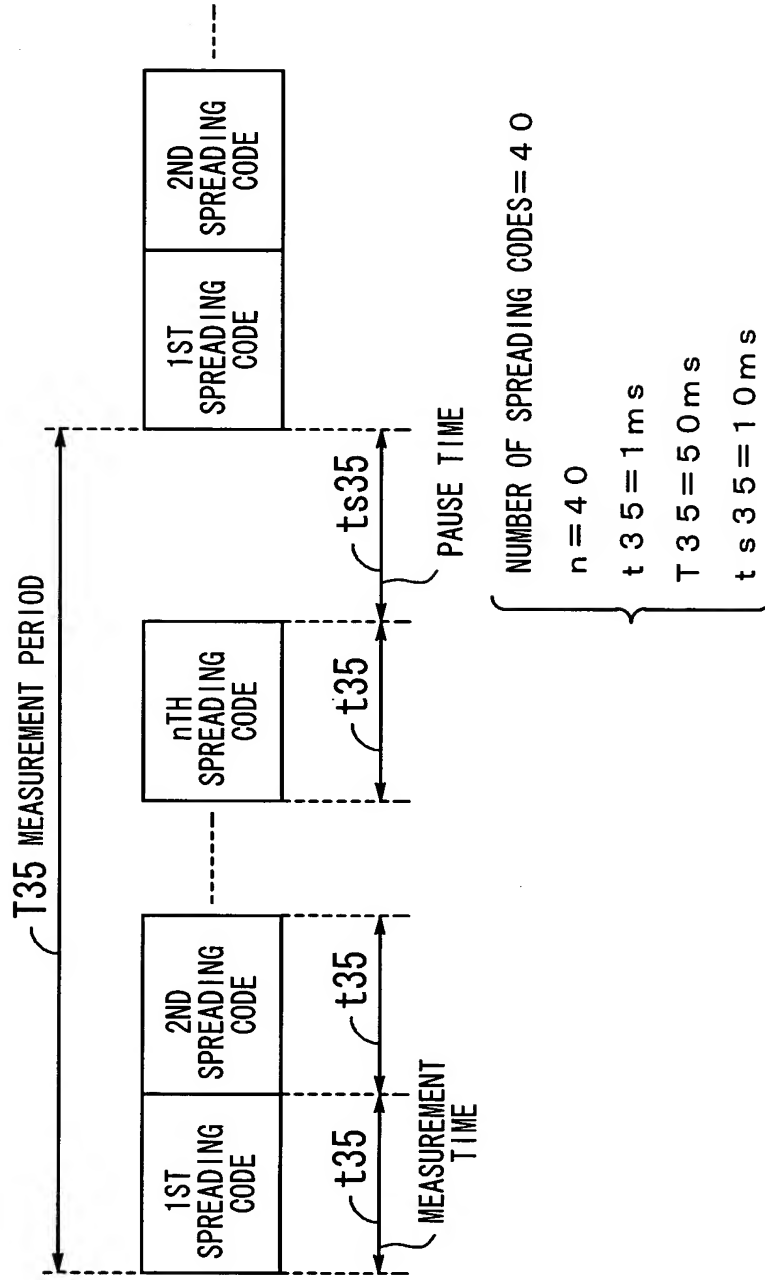


FIG. 33

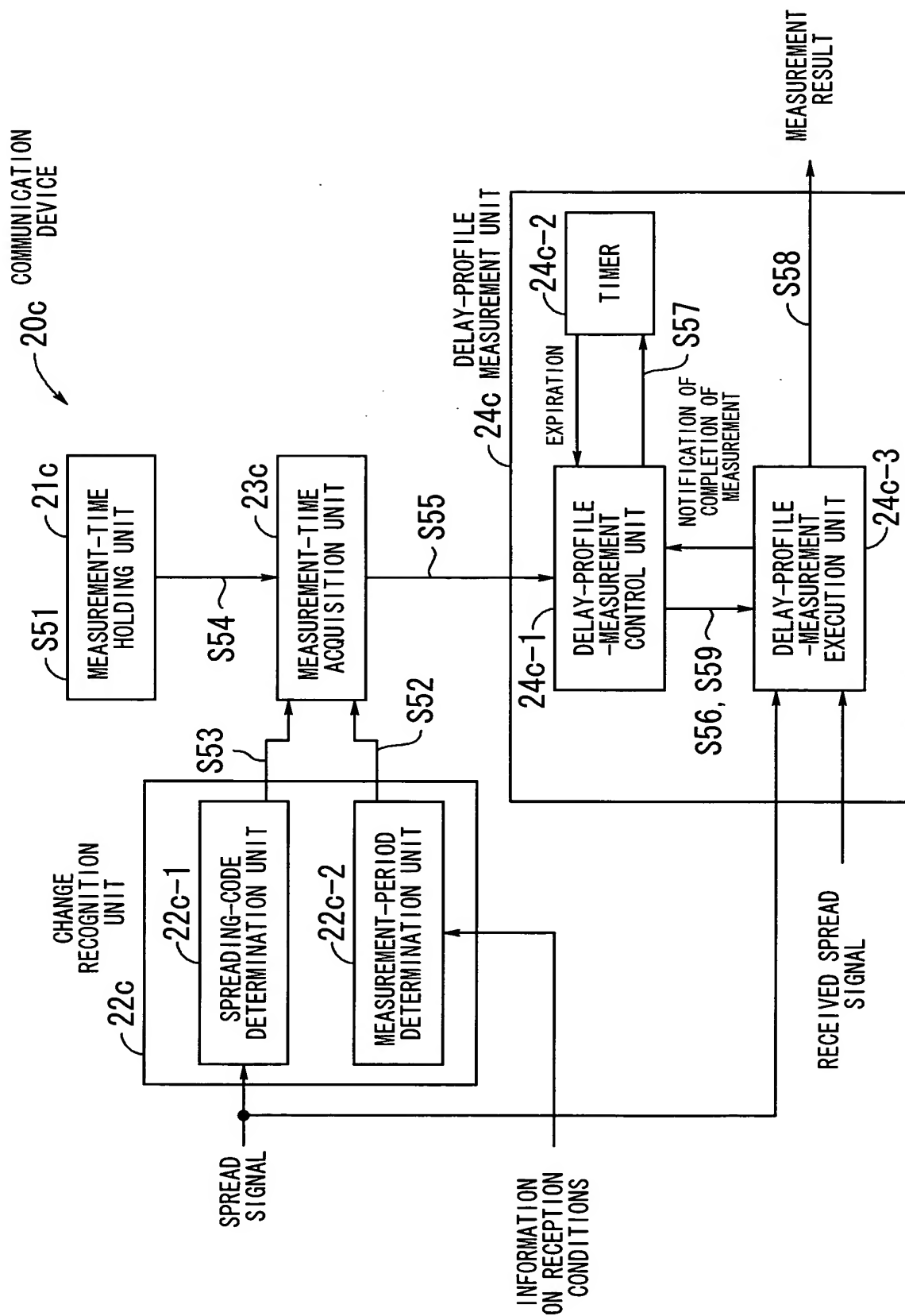


FIG. 34

↖ 21c-1

MEASUREMENT PERIOD \ NUMBER OF SPREADING CODE	1-16	17-32	33-48
50ms ~	2ms	1ms	1ms
100ms ~	4ms	2ms	2ms
200~400ms	4ms	4ms	4ms



 MEASUREMENT TIME

FIG. 35

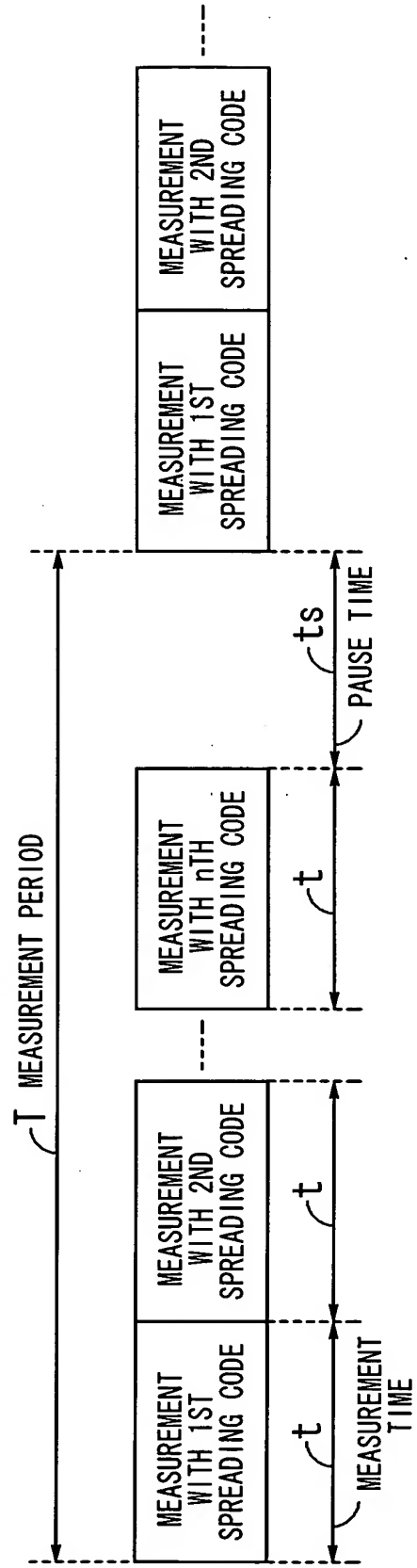


FIG. 36
PRIOR ART